

Personal Information

Name : Yousif Sulfab Ahmed

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Professional History

1. Department of Chemistry, university of Khartoum, Khartoum, Sudan, Professor (2007 – now).
2. Department of Chemistry, University of Qatar, Doha, State of Qatar. Professor (2001 – 2006).
3. **United States Environmental Protection Agency, Office of Solid Waste, Technology Innovation Office. (1999 – 2001)**
4. University of Qatar, Doha, State of Qatar, Visiting Professor (February-June 1998).).
5. LifeScan (a Johnson & Johnson Company), Milpitas, CA. (March-December 1997).
6. Educational Consultant (1995-1996) (Self- employed).
7. American University, Washington D.C. Adjunct Professor (1993-1994)
8. Kuwait University, Kuwait City, State of Kuwait.
Professor (1983-1990).
Associate Professor (1977-1983).
Assistant Professor (1972-1977).
9. University College of Cape Coast, Ghana. Lecturer (1971-1972).
10. University of Khartoum, Khartoum, Sudan. Lecturer (1968-1970).

Educational Background

1. University of Khartoum, Sudan.

Bachelor of Science in Chemistry, with Honors (1965).

2. University of London, London, U.K.

Ph.D. Physical Inorganic Chemistry (1968).

Professional Affiliations

1. Member, American Chemical Society, (1976 –1993).

2. Member, Royal Society of Chemistry, (1973 –1990).

Committees Membership

Departmental:

1. Library 2. Research 3. Curricula (4) Laboratories

5. General Chemistry (Convener) 6. Acting Chairman, Chemistry Dept, Kuwait (summer 1981). 7. Director, Graduate Chemistry Program 8. Core Curriculum

College

1. Research (chairman) (2) Laboratories and Equipment.

Graduate College

1. Mathematics and Physical Sciences Area Committee (Chairman).

Other Activities:

1. Reviewed and evaluated research proposals.
2. Represented College of Science, Kuwait University, on Research Council Funding Committee.

3. Referee: International Journal of Chemical Kinetics

D. Professional Activities:

1. Consultant, Kuwait Foundation for the Advancement of Science.

2. External Reviewer for Promotion of Faculty members at King Saud University, Riyadh, K.S.A. and the University of Bahrain

Courses Taught

1. General Chemistry (1).
2. General Chemistry (2)
3. General Chemistry Lab (1).
4. General Chemistry Lab (2)
5. Analytical Chemistry (1)
6. Analytical Chemistry (2)
7. Main Group and Transition Metals Chemistry
8. Introduction to Bonding Theories.
9. Kinetics and Mechanism of Inorganic Reactions
10. Advanced Inorganic Chemistry – Selected Topics

F. Sabbatical Leaves and Academic Missions

1. Northwestern University (1987-1988).
2. Purdue University (1982).
3. Purdue University (1979-1980).
4. Leeds University (1973/1974)

Conferences

1. American Chemical Society National Meeting, Washington, D. C. – August 2005.
2. American Chemical Society National Meeting, New York, N.Y- August-1991.
3. XVII ICCO, Queensland, Australia, July 1989.
4. XXV ICCO, Nanjing, China, August 1987.
5. 30th IUPAC Conference, Manchester, U. K., September 1985.
6. The First Conference on Mechanisms of Reactions in Solutions, Kent, U.K., July 1979.

Research Areas

1. Kinetics and Mechanisms of Inorganic Reactions.
(a) Electron Transfer Reactions (b) Substitution Reactions (c) Autocatalytic reactions.
2. Synthesis, Characterization and Reactions of Transition Metals in Uncommon High Oxidation States {(Cu(III), Ag(III). Cr(V) and Ni(III), Mn(III/(IV))}.

Grants

Kuwait University Research Council Grants (#SC009 and # SC0030).

J. Graduate Students Supervision:

Supervised M. S. and Ph.D. students.

Books

Co-authored: Secondary School Teacher's Chemistry Hand-Book (in Arabic).

Publisher: Ministry of Education, Kuwait (1976).

L. Languages

1. Arabic 2. English

M. Affiliations:

(1) Member, American Chemical Society, Washington D. C. (1993).

(2) Member, Royal Chemical Society, London. (1993).

Publications

1. Y. Sulfab and H. Elfaki, "Kinetics of Oxidation of Ferrocyanide by Iodate Ion", Can. J. Chem., 52, 2002 (1974).
2. Y. Sulfab and M. S. Al-Obadie, "Kinetics of Aquation of Tris(malonato)cobaltate(III) Anion in Acidic Solutions", J. Inorg. Nucl.Chem., 36,2067 (1974).
3. Y. Sulfab, M. S. Al-Obadie and N. A. Al-Salem, "Kinetics of Oxidation of Hexacyanoferrate(II) by Tris(malonato)cobaltate(III)", Z. Phys. Chemie., 94. 77, (1975).
4. J. D. Edwards, Y. Sulfab and A. G. Sykes, "Chromium(II) Reduction of Malonatotetraamminecobalt(III) and Tris(malonato)cobaltate(III)", Inorg. Chem., 14, 1474 (1975).
5. Y. Sulfab, "Kinetics and Mechanism of Oxidation of Hexacyanoferrate(II) by Periodate Ions", J. Inorg. Nucl. Chem., 38, 2271 (1976).
6. Y. Sulfab and K.E. Howlett, "Kinetics and Mechanism of the Reaction between Chromium(VI) and Hexacyanoferrate(II) in Aqueous Solution", Inorg. Chim. Acta., 7, 129 (1976).
7. Y. Sulfab, R. S. Taylor and A. G. Sykes, "Rapid Equilibration of Ethylene-N,N,N',N'-tetraacetato-aquochromate(III) Complex with Chromate(VI), Molybdate(VI), Tungstate(VI) and Azide. Labilization of the Aqua ligand by the free Carboxylate and Substitution at Chromium(III)", Inorg. Chem., 15, 2388 (1976).
8. Y. Sulfab and A. I. Abu-Shady, "Kinetics and Mechanism of Oxidation of Vanadium(IV) by Periodate in Aqueous Acidic Solutions", Inorg. Chim. Acta., 20, 115 (1977).
9. Y. Sulfab, "Kinetics of Oxidation of Sulphitopentacyanoferrate(II) by Peroxydisulphate", Inorg. Chim. Acta., 22, 35 (1977).
10. A.Y Kasim and Y.Sulfab, "Kinetics and Mechanisms of Oxidation of Hexacyanoferrate(II) by Periodate in Acidic Solutions. Evidence for Copper Catalysis", Inorg. Chim. Acta., 22, 169 (1977).
11. A.Y. Kasim and Y. Sulfab, "Oxidation of Ethylenediaminetetraacetatocobaltate(II) by Periodate in Aqueous Acidic Solutions", Inorg. Chim. Acta., 24, 247 (1977).
12. F. R. El-Eziri and Y. Sulfab, "Oxidation of Hexaaquaairon(II) by Periodate in Aqueous Acidic solutions", Inorg. Chim. Acta., 25, 15 (1977).

13. Y. Sulfab and M. S. El-Ezaby, "Interaction of Hexacyanoferrate(II) with Cyanocobalamin. Kinetics and Reaction Mechanisms", *Inorg. Chim. Acta.*, 26, 177 (1978).
 14. A.Y. Kasim, F. H Al-Hajjar and Y. Sulfab, "Oxidation of Thiols. I. Kinetics and Mechanism of Oxidation of B-hydroxy-a-thiobenzoyl-p-methoxystyrene by Hexacyanoferrate(III) in Neutral and Weakly Alkaline Medium", *Inorg. Chim. Acta.*, 28, 41 (1978).
 15. A.Y. Kasim and Y. Sulfab, "Kinetics and Mechanisms of Chromium (III)-Periodate Reaction", *Inorg. Chem.*, 20, 506 (1981).
 16. A. A. Abdel-Khalek and Y. Sulfab, " Kinetics and Mechanisms of Oxidation of Cobalt(II)aminopolycarboxylate Complexes by Periodate" ., *J. Inorg. Nucl. Chem.*, 43 , 3257 (1981).
 17. Y. Sulfab and M. S. Al-Obadie, "Inner-Sphere Oxidation of Iron(II) by Tris(malonato)cobaltate(III)", *Polyhedron.*, 1, 149 (1982).
 18. M. A. Hussein and Y. Sulfab, "Kinetics of the Oxidation of Octacyanomolybdate(IV) by Periodate in Aqueous Solutions", *Transitions Met. Chem.*, 7, 181 (1982).
 19. Y. Sulfab. M. A. Hussein and N. I. Al-Shatti, "A Blue Copper(III) Complex", *Inorg. Chim. Acta.*, 67, L33(1982).
 20. A. A. Abdel-Khalek and Y. Sulfab, "Kinetics and Mechanism of Oxidation of Trans-1, 2-diaminocyclo-hexanetetra-acetatocobaltate(II) by Periodate", *Transition Met. Chem.*, 7, 297 (1982).
21. N. A. Al-Jallal and Y. Sulfab, "Kinetics of the Oxidation of Aquaethylenediaminetetraacetatochromium (III) by Periodate", *Transition Met. Chem.*, 8, 51 (1981).
2. M. A. Hussein, A. A. Abdel-Khalek and Y. Sulfab, "Inner-Sphere Oxidation of
 3. Y. Sulfab, " On the Mechanism of the Chromium(III)-Periodate Reaction", *Polyhedron.*, 2, 679 (1983).
 4. N. I. Al-Shatti, M. A. Hussein and Y. Sulfab, "Kinetics of the Oxidation of Iodide by Copper(III)-Imine-Oxime Complexes", *Transition Met. Chem.*, 9, 31 (1984).
 5. Y. Sulfab, N. I. Al-Shatti and M. A. Hussein, "Synthesis and Characterization of a
- Diaqua(nitrilotriacetato)cobaltate(II) by Periodate in Acetate Medium. Isokinetic Relationship for the Oxidation of (Aminopolycarboxylate)cobalt(II) Complexes by Periodate" , *J. Chem. Soc., Dalton Trans.*, 317 (1983).**
- Novel Periodatobis(1,10-phenanthroline)chromium(V) Complex", *Inorg. Chim. Acta.*, 86, L59 (1984).
6. Y. Sulfab and N. I. Al-Shatti, "Synthesis and Characterization of an Imine -Oxime Copper(III) Complex", *Inorg. Chim. Acta.*, 87, L23 (1984).

7. N. I. Al-Shatti , M. A. Hussein and Y. Sulfab, "Inner –Sphere Oxidation of Ethylenediaminetetraacetatocobaltate (II) by Copper (III)-Imine- Oxime Complexes" *Inorg. Chim Acta*, 99, 129 (1985).
8. Y. Sulfab, S. Al-Mousawi and A. Hussain, "Stabilization of the Trivalent and Monovalent Oxidation States of Copper by 1,2-Bis(O-aminobenzylideneamino)ethane", *Transition Met. Chem.*, 11,386 (1986).
9. O. M. E. El-Dusouqui, K. A. M. Mahmud and Y. Sulfab, "p-Complex Formation and Collapse in Electrophilic Halogenation of Aromatic Substrates", *Tetrahedron*

Lett., 28, 157 (1987).

1. A. Hussein, Y. Sulfab and M. Nasreldin, "Outer-Sphere Electron Transfer between [Ni(II)(cyclam)]²⁺ and Copper(III)-Imine-Oxime Complexes", *Inorg.Chem.*, 28, 157 (1989).

1. Y. Sulfab, Fred Basolo and A. Rheingold, "Kinetics and Mechanism of CO Substitution of Six-Coordinate Halotetracarbonylnitrosyltungsten(I)", *Organometallics.*, 8, 2139 (1989).

2. Y. Sulfab, "Electron Transfer between Bis(dimethylglyoxime)copper(II) and Diglycylethylenediaminecopper(III). Stabilization of Copper(III) by a Dioxime Ligand", *Polyhedron*, 8, 2409 (1989).

3. M. H. Abu-Elenien, N. I. Al-Shatti , M. A. Hussein and Y. Sulfab, "Kinetics and Mechanism of Oxidation of Diethylenetriaminepentaacetatocobalt(II) by Periodate", *Polyhedron*, 9, 99 (1990).

4. O.M. E. El-Dusouqui, K. A.M. Mahmud and Y. Sulfab, "Role of Structure, Medium and Pathway in Electrophilic Aromatic Substitution. Part 2. Incidence of p-Complex and Influence of Medium and Stability of Incipient Moieties in Molecular Chlorination of Aromatic Hydrocarbons", *J. Chem. Soc. Perkin Trans.*, 2, 11 (1991).

5. F. M. Al-Sogair and Y. Sulfab, "Electron Transfer Reactions of Tris(1,10-phenanthroline)cobalt(II) and Copper(III) –Imine-Oxime

Complexes”, *Trans. Met. Chem.*, 19, 181 (1993).

6. C. T. Dillon, P. A. Lay, A. M. Bonin, N. E. Dixon and Y. Sulfab, “DNA Interactions and Bacterial Mutagenicity of Some Chromium(III) Imine Complexes and Their Chromium(V) Analogues. Evidence for Chromium(V) Intermediates in Genotoxicity of Chromium(III), *Aust. J. Chem.*, 53, 411 (2000).

7. Y. Sulfab and Mohamed Nasreldin, “Dioxochromium(V) Complexes with 1,10-Phenanthroline and 2, 2'-bipyridine Ligands”, *Transition Met. Chem.*, 26, 147 (2001).

8. Y. Sulfab and F. M. Al-Sogair, “Stabilization of the Trivalent Oxidation State of Copper by Tetradentate Imine-oxime Ligands” *Transition Met. Chem.*, 27, 299 (2002).

9. Y. Sulfab and F. M. Al-Sogair, “Kinetics and mechanism of reduction of 3, 9-diethyl-4, 8-diaza-3,8-undeca-2,10-dionedioximatocopper(III) complex by p-methoxyphenol, 1, 2-dihydroxybenzene, 1,4-dihydroxybenzene and some of its derivatives in aqueous acidic solutions, *Polyhedron*, 23, 583 (2004).

1. Y. Sulfab and N. A. Al-Jallal, “Inner-sphere oxidation of cis-diaqua(oxalato)chromate(III) by periodate in weakly aqueous acidic solutions” *Transition Met. Chem.*, 29, 216 (2004).

1. F. M. AL-Sogair and Y. Sulfab, “Kinetics and mechanism of reduction of 2, 8-dimethyl-3,7-diphenyl- 3, 7-diaza-2, 7-nonadiene-1, 9-dione dioximatocopper(III) ($[\text{Cu}^{\text{III}}\text{A}]^+$) and 4, 6, 9-trimethyl-5, 8-diaza-4, 8-dodecadiene-2, 3, 10, 11-tetraone 3, 10-dioximatocopper(III) ($[\text{Cu}^{\text{III}}\text{B}]^+$) by p-methoxyphenol, 1, 2-dihydroxybenzene, 1,4-dihydroxybenzene and some of its derivatives in aqueous acidic solutions”, *Transition Met. Chem.*, 30, 508 (2005).

2. Mohamed A-Z. Eltayeb and Y. Sulfab, “Stabilization of copper(III) by tridentate imine-

oxime-amine ligands", Polyhedron, 26, 1 (2007).

3. Mohamed A-Z. Eltayeb and Y. Sulfab, "Synthesis and characterization of silver(III) complexes with tetradentate and tridentate ligands with imine-oxime groups", Polyhedron, 26, 39 (2007).